

AMENDMENTS TO CLAIMS

The following listing of the claims replaces all prior claim versions and listings.

1. (Currently Amended) A backlight unit comprising:

a chassis having a bay, wall means defining the bay, an aperture opening to the bay, and an optical panel that includes at least one light management feature, the optical panel having one side forming a wall portion of the wall means;

a light emitting structure placed within the bay to light a two-dimensional area on the one side of the optical panel, the light emitting structure having at least one linear light source and a power control circuit coupled to the linear light source; and

a bracket for quick installation and removal of the light emitting structure through the aperture to and from the bay, the bracket having a support structure carrying the light emitting structure, the support structure having a frame for supporting the linear light source and a circuit mount having two portions for supporting the power control circuit,

wherein the bay within the chassis includes a first region for receiving the frame of the support structure and two second regions for receiving the two portions of the circuit mount of the support structure, respectively.

2. (Cancelled)

3. (Original) The backlight unit as claimed in claim 2,

wherein the at least one linear light source includes a parallel arrangement of a plurality of linear lamps.

4. (Currently Amended) The backlight unit as claimed in claim 3,

wherein the ~~support structure includes a frame~~ [[having]] has a predetermined line and two sides spaced along the predetermined line, and [[a]] each of the circuit mount including two portions of the circuit mount, each extending extends from one of the two sides in a remote direction from the other of the two sides; and

wherein, at the two sides, the frame holds two ends of each of the plurality of linear lamps, respectively, and the circuit mount holds the power control circuit.

5. (Original) The backlight unit as claimed in claim 4,

wherein the frame includes two frame halves interposing therebetween the two ends of each of the plurality of linear lamps, the two frame halves are of the identical structure.

6. (Original) The backlight unit as claimed in claim 4,

wherein the frame includes two frame halves, at least one of which is formed with a plurality of cutouts over the entire length of each of the two sides; and

wherein a mount rubber holds one of the two ends of each of the plurality of linear lamps within one of the plurality of cutouts.

7. (Original) The backlight unit as claimed in claim 4,

wherein the bracket includes at least one light leak prevention feature.

8. (Original) The backlight unit as claimed in claim 7,

wherein the at least one light leak prevention feature includes a light shield arranged

to cover the aperture when the bracket is positioned for installation of the light emitting structure to the bay.

9. (Original) The backlight unit as claimed in claim 7,

wherein the chassis includes a guide for the frame of the support structure to slide relative to the chassis; and

wherein the light leak prevention feature includes a second light shield arranged to cover a clearance between the frame of the support structure and the guide of the chassis.

10. (Currently Amended) The backlight unit as claimed in claim 9,

~~wherein the bay within the chassis includes a first region for receiving the frame of the support structure and two second regions for receiving the two portions of the circuit mount of the support structure, respectively;~~

wherein the first region includes guide spaces defined by the guide, the guide spaces are open to the second regions, respectively, and the second regions are greater in width than the guide spaces;

wherein the frame of the support structure within the guide defines within each of the guide spaces the clearance; and

wherein the support structure includes the second light shield between each of the two sides of the frame and the adjacent one of the two portions of the circuit mount.

11. (Original) The backlight unit as claimed in claim 9,

wherein the chassis and the support structure include means for bringing the bracket

into firm engagement with the chassis.

12. (Original) The backlight unit as claimed in claim 4,
wherein the at least one light management feature includes a first light management feature and a second light management feature.

13. (Original) The backlight unit as claimed in claim 12,
wherein the first light management feature is a light diffusing feature within the optical panel and the second light management feature is one selected from a group consisting of a brightness enhancing film and a light diffusing film.

14. (Original) The backlight unit as claimed in claim 13,
wherein the chassis is dividable into four sections, each having at least one frame portion providing a groove receiving one of four sides of the optical panel.

15. (Currently Amended) A display device comprising:
at least one light control device; and
a backlight unit coupled to the at least one light control device, wherein the backlight unit includes:
a chassis having a bay, wall means defining the bay, an aperture opening to the bay, and at least one optical panel that includes at least one light management feature,
the at least one optical panel having one side forming a wall portion of the wall means, to thereby prevent exposure of the at least one light control device to the bay;

a light emitting structure placed within the bay to light a two-dimensional area on the one side of the at least one optical panel, having at least one linear light source and a power control circuit coupled to the linear light source; and

a bracket for quick installation and removal of the light emitting structure through the aperture to and from the bay, having a frame for supporting the linear light source and a circuit mount having two portions for supporting the power control circuit,

wherein the bay within the chassis includes a first region for receiving the frame of the support structure and two second regions for receiving the two portions of the circuit mount of the support structure, respectively.

16. (Original) The display device as claimed in claim 15,

wherein the at least one light control device includes a first light control device and a second light control device;

wherein the at least one optical panel includes a first optical panel between the first light control device and the bay and a second optical panel between the second light control device and the bay; and

wherein the light emitting structure is placed within the bay between the first and second optical panels.

17. (Original) The display device as claimed in claim 16,

wherein the first and second control devices include a first liquid crystal display panel and a second liquid crystal display panel, respectively, and attached to the chassis;

wherein the first and second optical panels have sides, respectively, forming wall

portions of the wall means; and

wherein the light emitting structure placed within the bay between the first and second optical panels lights a two-dimensional area on the side of the first optical panel and another two-dimensional area on the side of the second optical panel.

18. (Original) The display device as claimed in claim 15,

wherein the at least one light management feature includes a light diffusion feature within the at least one optical panel.

19. (Original) The display device as claimed in claim 15,

wherein the at least one light management feature includes a first light management feature in the form of a light diffusion feature within the at least one optical panel, and a second light management feature, the second light management feature being one selected from a group consisting of a brightness enhancing film and a light diffusing film.

20. (Currently Amended) A method for light source replacement of a display device, wherein the display device includes:

a light control device including a liquid crystal display panel; and

a backlight unit coupled to the light control device, wherein the backlight unit includes:

an optical panel including at least one light management feature; and

a light emitting structure placed to light a two-dimensional area on one side of the optical panel, including at least one linear light source and a power control circuit coupled to the

linear light source,

the method comprising:

providing a chassis having a bay, wall means defining the bay, an aperture opening to the bay, the bay having a first region and two second regions;

attaching the optical panel to the chassis such that the one side thereof forms a wall portion of the wall means;

providing a bracket for quick installation and removal of the light emitting structure through the aperture to and from the bay, including a frame for supporting the linear light source and a circuit mount having two portions for supporting the power control circuit such that the first region of the bay receives the frame and the two second regions receive the two portions of the circuit mount, respectively; and

pulling the bracket out of the chassis to remove the light emitting structure for light source replacement.